

INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2004/018500

A. CLASSIFICATION OF SUBJECT MATTER
Int.Cl⁷ H05K1/02, H05K1/09, H05K3/06, H05K3/24, C25D7/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
Int.Cl⁷ H05K1/02, H05K1/09, H05K3/06, H05K3/24

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1922-1996	Jitsuyo Shinan Toroku Koho	1996-2004
Kokai Jitsuyo Shinan Koho	1971-2004	Toroku Jitsuyo Shinan Koho	1994-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	JP 09-064493 A (Nippon Mektron, Ltd.), 07 March, 1997 (07.03.97), Full text; Fig. 1 (Family: none)	1, 4, 5, 7, 8 2-3, 6, 9-12, 20
Y	JP 05-129760 A (Fujitsu Ltd.), 25 May, 1993 (25.05.93), Full text; Fig. 1 & US 5378310 A & EP 0541436 A2	1-12, 20
Y A	JP 2003-282651 A (SHINDO CO., LTD.), 03 October, 2003 (03.10.03), Full text; Fig. 1 (Family: none)	9-11 1-8, 12-20

☒ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
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- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or prior date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search
07 March, 2005 (07.03.05)

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22 March, 2005 (22.03.05)

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Japanese Patent Office

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